

SEQUENCE LISTING

<110> Simard, John J. L.
Diamond, David C.

<120> EPITOPE SYNCHRONIZATION IN ANTIGEN
PRESENTING CELLS

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<151> 2000-04-28

<150> 09/560,465

<151> 2000-04-28

<150> 09/561,572

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<151> 2000-04-28

<150> PCT/US01/13806

<151> 2001-04-27

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<170> FastSEQ for Windows Version 4.0

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His Gly His Ser Tyr Thr Thr Ala Glu Glu Ala Ala Gly Ile Gly Ile
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Leu Thr Val Ile Leu Gly Val Leu Leu Leu Ile Gly Cys Trp Tyr Cys
 35          40          45
Arg Arg Arg Asn Gly Tyr Arg Ala Leu Met Asp Lys Ser Leu His Val
 50          55          60
Gly Thr Gln Cys Ala Leu Thr Arg Arg Cys Pro Gln Glu Gly Phe Asp
 65          70          75          80
His Arg Asp Ser Lys Val Ser Leu Gln Glu Lys Asn Cys Glu Pro Val
 85          90          95
Val Pro Asn Ala Pro Pro Ala Tyr Glu Lys Leu Ser Ala Glu Gln Ser
 100         105         110
Pro Pro Pro Tyr Ser Pro
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20 25 30
Ser Lys Glu Glu Trp Glu Lys Met Lys Ala Ser Glu Lys Ile Phe Tyr
35 40 45
Val Tyr Met Lys Arg Lys Tyr Glu Ala Met Thr Lys Leu Gly Phe Lys
50 55 60
Ala Thr Leu Pro Pro Phe Met Cys Asn Lys Arg Ala Glu Asp Phe Gln
65 70 75 80
Gly Asn Asp Leu Asp Asn Asp Pro Asn Arg Gly Asn Gln Val Glu Arg
85 90 95
Pro Gln Met Thr Phe Gly Arg Leu Gln Gly Ile Ser Pro Lys Ile Met
100 105 110
Pro Lys Lys Pro Ala Glu Glu Gly Asn Asp Ser Glu Glu Val Pro Glu
115 120 125
Ala Ser Gly Pro Gln Asn Asp Gly Lys Glu Leu Cys Pro Pro Gly Lys
130 135 140
Pro Thr Thr Ser Glu Lys Ile His Glu Arg Ser Gly Pro Lys Arg Gly
145 150 155 160
Glu His Ala Trp Thr His Arg Leu Arg Glu Arg Lys Gln Leu Val Ile
165 170 175
Tyr Glu Glu Ile Ser Asp Pro Glu Glu Asp Asp Glu
180 185

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<400> 3

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Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly
20 25 30
Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala
35 40 45
Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
50 55 60
His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala
65 70 75 80
Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe
85 90 95
Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp
100 105 110
Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val
115 120 125
Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln
130 135 140
Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met
145 150 155 160
Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser
165 170 175

Gly Gln Arg Arg
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Lys	Glu	Cys	Cys	Pro	Pro	Trp	Ser	Gly	Asp	Arg	Ser	Pro	Cys	Gly	Gln
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Leu	Ser	Gly	Arg	Gly	Ser	Cys	Gln	Asn	Ile	Leu	Leu	Ser	Asn	Ala	Pro
	50					55					60				
Leu	Gly	Pro	Gln	Phe	Pro	Phe	Thr	Gly	Val	Asp	Asp	Arg	Glu	Ser	Trp
65					70					75					80
Pro	Ser	Val	Phe	Tyr	Asn	Arg	Thr	Cys	Gln	Cys	Ser	Gly	Asn	Phe	Met
				85					90					95	
Gly	Phe	Asn	Cys	Gly	Asn	Cys	Lys	Phe	Gly	Phe	Trp	Gly	Pro	Asn	Cys
			100					105					110		
Thr	Glu	Arg	Arg	Leu	Leu	Val	Arg	Asn	Ile	Phe	Asp	Leu	Ser	Ala	
		115					120					125			
Pro	Glu	Lys	Asp	Lys	Phe	Phe	Ala	Tyr	Leu	Thr	Leu	Ala	Lys	His	Thr
	130					135					140				
Ile	Ser	Ser	Asp	Tyr	Val	Ile	Pro	Ile	Gly	Thr	Tyr	Gly	Gln	Met	Lys
145					150					155					160
Asn	Gly	Ser	Thr	Pro	Met	Phe	Asn	Asp	Ile	Asn	Ile	Tyr	Asp	Leu	Phe
				165					170					175	
Val	Trp	Met	His	Tyr	Tyr	Val	Ser	Met	Asp	Ala	Leu	Leu	Gly	Gly	Ser
			180					185					190		
Glu	Ile	Trp	Arg	Asp	Ile	Asp	Phe	Ala	His	Glu	Ala	Pro	Ala	Phe	Leu
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Pro	Trp	His	Arg	Leu	Phe	Leu	Leu	Arg	Trp	Glu	Gln	Glu	Ile	Gln	Lys
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Leu	Thr	Gly	Asp	Glu	Asn	Phe	Thr	Ile	Pro	Tyr	Trp	Asp	Trp	Arg	Asp
225					230					235					240
Ala	Glu	Lys	Cys	Asp	Ile	Cys	Thr	Asp	Glu	Tyr	Met	Gly	Gly	Gln	His
				245					250					255	
Pro	Thr	Asn	Pro	Asn	Leu	Leu	Ser	Pro	Ala	Ser	Phe	Phe	Ser	Ser	Trp
			260					265					270		
Gln	Ile	Val	Cys	Ser	Arg	Leu	Glu	Tyr	Asn	Ser	His	Gln	Ser	Leu	
		275					280					285			
Cys	Asn	Gly	Thr	Pro	Glu	Gly	Pro	Leu	Arg	Arg	Asn	Pro	Gly	Asn	His
	290					295					300				
Asp	Lys	Ser	Arg	Thr	Pro	Arg	Leu	Pro	Ser	Ser	Ala	Asp	Val	Glu	Phe
305					310					315					320
Cys	Leu	Ser	Leu	Thr	Gln	Tyr	Glu	Ser	Gly	Ser	Met	Asp	Lys	Ala	Ala
				325					330					335	
Asn	Phe	Ser	Phe	Arg	Asn	Thr	Leu	Glu	Gly	Phe	Ala	Ser	Pro	Leu	Thr
			340					345					350		
Gly	Ile	Ala	Asp	Ala	Ser	Gln	Ser	Ser	Met	His	Asn	Ala	Leu	His	Ile
	355					360						365			
Tyr	Met	Asn	Gly	Thr	Met	Ser	Gln	Val	Gln	Gly	Ser	Ala	Asn	Asp	Pro

Met Leu Leu Ala Val Leu Tyr Cys Leu Leu Trp Ser Phe Gln Thr Ser
 1 5 10 15

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 Val Ile Leu Gly Val Leu
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 Glu Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val Lys
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 Val Leu His His Met Val Lys Ile
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 Ala Pro Glu Glu Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val Phe
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 Glu Gly Arg

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Glu Gly Arg

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Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val Lys
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Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile
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Ser Ala Asn Arg Ser Asp Pro Val Thr Leu
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Ser Val Ser Ala Asn Arg Ser Asp Pro Val
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 Ser Leu Pro Val Ser Pro Arg Leu Gln Leu

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Ser Leu Pro Val Ser Pro Arg Leu Gln Leu
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 Cys Phe Val Ser Asn Leu Ala Thr Gly Arg
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Ser Ala Gly Ala Thr Val Gly Ile Met Ile
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 Ser Lys Pro Val Glu Asp Lys Asp Ala Val
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 Ser Ala Ser Gly His Ser Arg Thr Thr Val
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Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu
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Lys Glu Val Leu Leu Leu Val His Asn Leu
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Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe
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Phe Leu Pro Trp His Arg Leu Phe Leu Leu
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Ala Glu Met Gly Lys Tyr Ser Phe Tyr
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actttccaca cc 72

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<220>
<223> Synthetic Nucleotide Sequence

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aacgtt

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